

0903293.071004

GAATTCGGGTGGGTAGGTCGGGCAGGGTAGGACAGGCCTAAGAGAGAGGCCGGACAGACCTCC  
TTTGGAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGCTGTCCCAT  
GGGACAGCAGATCTCTCTTCCCAGTGCACAGCTTCTCCTCTGCCTGTTTTCCCTGCTTCCAGTG  
CTCCAGGTGGCCCAACCAGGCCAGGCACCCAGGACCAGCCCCTGTGGACACTTTTGGAGCAGT  
ACTGCCACAGGACCACAATTGGGAATTTTTCAGGTCCCTACACCTACTGCAACACGACCTTGGA  
CCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGGAGCCCTAGTAGAGAGACCGTGCCCCGAG  
TACTTCAATGGCATCAAGTACAACACGACCCGGAATGCCCTACAGAGAGTGCCCTGGAGAACGGGA  
CCTGGGCCTCAAGGGTCAACTACTCACACTGCGAACCCATTTTGGATGACAAGCAGAGAAAGTA  
TGACCTGCATTACCGAATCGCCCTCATTGTCAACTACCTGGGTCACTGTGTTTCCGTGGTGGCC  
CTGGTGGCCGCTTTCTCTGCTTTTCCCTAGTGCTGCGGAGTATCCGCTGCCTGAGGAATGTGATCC  
ACTGGAACCTCATCACCACCTTCATTCTGAGAAACATCGCGTGGTTCCTGCTGCAACTCATCGA  
CCACGAAGTGCACGAGGGCAATGAGGTCTGGTGGCGCTGCATCACCACCATCTTCAACTATTTT  
GTGGTCACCAACTTCTTCTGGATGTTTGTGGAGGGCTGCTACCTGCACACGGCCATTGTCATGA  
CGTACTCCACAGAGCACCTGCGCAAGTGGCTTTTCCCTCTTCATTGGATGGTGCATTCCCTGCCC  
TATCATCATCGCCTGGGCAGTTGGCAAACCTCTACTATGAGAATGAGCAGTGCTGGTTTGGCAAG  
GAAGCTGGTGATTTGGTGGACTACATCTACCAGGGCCCCGTCATGCTTGTGCTGTTGATCAATT  
TTGTATTTCTGTTTAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATCCACCACGTCCGA  
GACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGTCCCTCCTCCCCCTGTTGGGCATCACC  
TACATGCTCTTCTTTGTCAATCCTGGCGAGGACGACCTGTCCCAGATTGTGTTTCATCTACTTCA  
ACTCTTTCCTGCAGTCCCTTCCAGGGTTTCTTTGTGTCCGTTTCTACTGCTTCTTCAATGGAGA  
GGTGCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGGGCAGGACCACCACGCCCTCCGGGTGCCT  
GTGCGCCGGGCCATGTCCATCCCTACGTGCCCCACCAGGATCAGCTTCCACAGCATCAAGCAGA  
CAGCTGCTGTGTGACCCTCTGTCACCGTCTGCCCCGCGAGTCCACCACTGAGGCAGCTTCTCCAT  
CCTTTACAGCCTTCCCCTGGGTCTCCTTGCTACCCTGACCCACAGGTACAAGGTACAGGAGAA  
GGGAGGAGAACGAACACTCCC (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

GAATTCCGGGTGGGTAGGTCGGGCAGGGTAGGACAGGCCTAAGAGAGAGGCCGGACAGAC  
CTCCTTTGGAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGC  
TGTCCTTCCAGTGCTCCAGGTGGCCCAACCAGGCCAGGCACCCAGGACCAGCCCTGTGG  
CACTTTTGGAGCAGTACTGCCACAGGACCACAATTGGGAATTTTTCAGGTCCCTACACC  
TACTGCAACACGACCTTGGACCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGGAGCC  
CTAGTAGAGAGACCGTGCCCCGAGTACTTCAATGGCATCAAGTACAACACGACCC [GGAA  
TGCTACAGAGAGTGCCTGGA] GAACGGGACCTGGGCCTCAAGGGTCAACTACTCACACT  
GCGAACCCATTTTGGATGACAAGCAGAGAAAGTATGACCTGCATTACCGAATCGCCCTCA  
TTGTCAACTACCTGGGTCACTGTGTTTCCGTGGTGGCCCTGGTG [GCCGCTTTCCTGCTT  
TTCCTAGTGCTGCG] GAGTATCCGCTGCCTGAGGAATGTGATCCACTGGAACCTCATCAC  
CACCTTCATTCTGAGAAACATCGCGTGGTTCCCTGCTGCAACTCATCGACCACGAAGTGCA  
CGAGGGCAATGAGGTCTGGTGCCGCTGCATCACCACCATCTTCAACTATTTTGTGGTCAC  
CAACTTCTTCTGGATGTTTGTGGAGGGCTGCTACCTGCACACGGCCATTGTCATGACGTA  
CTCCACAGAGCACCTGCGCAAGTGGCTTTTCCTCTTCATTGGATGGTGCATTCCTTGCCC  
TATCATCATCGCCTGGGCAGTTGGCAAACCTCTACTATGAGAATGAGCAGTGCTGGTTTGG  
CAAGGAAGCTGGTGATTTGGTGGACTACATCTACCAGGGCCCCGTCATGCTTGTGCTGTT  
GATCAATTTTGTATTTCTGTTTAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATC  
CACCACGTCCGAGACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGTCCCTCTCCC  
CCTGTTGGGCATCACCTACATGCTCTTCTTGTCAATCCTGGCGAGGACGACCTGTCCCA  
GATTGTGTTTCATCTACTTCAACTCTTTCCTGCAGTCCTTCCAGGGTTTCTTTGTGTCCGT  
TTTCTACTGCTTCTTCAATGGAGAGGTGCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGG  
GCAGGACCACCACGCCCTCCGGGTGCCTGTGCGCCGGGCCATGTCCATCCCTACGTCGCC  
CACCAGGATCAGCTTCCACAGCATCAAGCAGACAGCTGCTGTGTGACCCCTGTGACCGT  
CTGCCCAGGAGTCCACCACTGAGGCAGCTTCTCCATCCTTTACAGCCTTCCCCTGGGTCC  
TCCTTGCTACCCCTGACCCACAGGTACAAGGTACAGGAGAAGGGAGGAGAACGAACACTCC  
C

FIGURE 2A

Gene Sequence Structure

441 bp

Sequence Deleted

582 bp

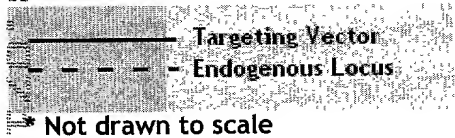
Size of full-length  
cDNA: 1557 bp



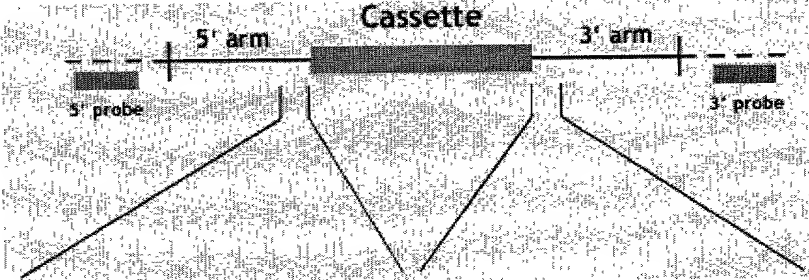
Targeting Vector\* (genomic sequence)

Construct Number: 3050

Arm Length:  
5' 3.1 kb  
3' 2.5 kb



LacZ-Neo



<p>5'&gt;AGCCCTATGTGTAATTTTCAT ATAAATGACTCATATTAGCTTTCA GATATGCATTGTGTTTTTCAGGTCT GGGAGAACTAAGGAGTGTGGACCT TATCCTGCAGGTACTAGGGAGCCA GGGAGGGCTTTTGAGGCGGGAGGG CGTCCTGACTCTCAGTGGTTGGCA TCTTCTCTAGGGAATGCCTACAGA GAGTGCCTGGA&lt;3' (SEQ ID NO:2)</p>	<p>5'&gt;GCCGCTTTCCTGCCTTTTCCTA GTGCTGCGGTGAGTCCACCTCCAC CCTGCTTCCTCCTTGTCTTTGCCT CTCCCAGACATTGTCTCTTCCATT CTGGGGCCCCGGGAACAGTAGCCA GAAGTGGGTTTAAGTCAGACCCCC AGGGCCATGACCACCAGCCTGCCT GAAGGGTAGAGAGCAAGCCCAGCT GGGACCACCAG&lt;3' (SEQ ID NO:3)</p>
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FIGURE 2B